



TCMIP – Current issues

http://www.earthsci.unimelb.edu.au/~kwalsh/tcmip_index.html

Scientific questions

- What are the factors that govern simulated formation rates?
- What governs the regional variation in tropical cyclone simulation (i.e. usually too few in N. Atlantic, too many in S. Atlantic, poor in E. N. Pacific)?
- What governs the relationship between empirical indices like SGP and simulated low formation?
- How well can models simulate the relationship between MJO and tropical cyclone formation, and why?

Current issues

- Analysis of climatological performance existing climatological SST or AMIP-style runs
- High-res global and RCM runs
- Phase 1 and phase 2 diagnostics
 - Groups are able to complete these themselves
 - or we can take specified variables on a terabyte disk and do the analysis

Current and future issues

- CMIP5 data specification
 - Needs to be checked to see what issues will arise for applying TCMIP diagnostics
- Future issues:
 - Common future experiments performed specifically for TCMIP
 - AMIP style simulations using supplied SSTs
 - Use of new reanalysis products for validation